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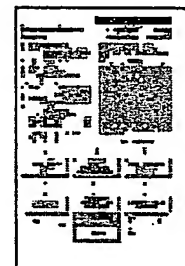
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Kind: A (See also: [JP03200025B2](#))**Inventor:** WATANABE SHUNJI;
SAKATA AKIHITO;
ONODERA HIDEHARU;
SAKAI TSUGIO;
TAWARA KENSUKE;
TAKASUGI SHINICHI;**Assignee:** SEIKO INSTR INC
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 1998-10-09 / 1997-03-26**Application Number:** JP1997000074170**IPC Code:** Advanced: [H01M 4/02](#); [H01M 10/40](#); [H01M 4/40](#); [H01M 4/48](#);
Core: [H01M 10/36](#); more...
IPC-7: [H01M 4/02](#); [H01M 4/04](#); [H01M 4/38](#); [H01M 4/48](#); [H01M 10/40](#);**Priority Number:** 1997-03-26 JP1997000074170**Abstract:** PROBLEM TO BE SOLVED: To improve battery's cycle characteristics and simplify the manufacturing process and facility, by composing the negative electrode of powdery tin, electron conductive carbon powder, and resin binding agent, using oxide of transition metals as positive electrode active material, and using material in which lithium compound is solved in organic solvent as nonaqueous electrolyte.

SOLUTION: The battery is composed of a negative electrode which consists of powdery tin or tin alloy, electron conductive powdery carbon, and resin binding agent, a positive electrode whose active material is metallic oxide containing transition metals as its element, and lithium-ion-conductive nonaqueous electrolyte in which lithium compound is solved or solid-solved in organic solvent or high molecule. Tin powder composing the negative electrode is produced in a grinding or an atomizing method. It is also effective to use material which is produced by reducing tin oxide with electrochemical reaction between tin oxide and lithium or material containing lithium, inside or outside of the battery after assembling.


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| PDF | Patent | Pub Date | Inventor | Assignee | Title |
|---|-----------|------------|--------------|--------------------------------------|--|
|  | US6706447 | 2004-03-16 | Gao; Yuan | FMC Corporation, Lithium Division | Lithium metal dispersion in secondary battery anodes |

Other Abstract
Info:

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